Status of MSL Archives

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Management Council

April 3, 2013

MSL Release 1

- **Release 1, part 1 (EDRs for sols 0-89): February 27, 2013**
  - **Included: APXS, ChemCam, DAN, Hazcam, Navcam, REMS, SPICE**
  - **Missing: CheMin, RAD, MAHLI, MARDI, Mastcam**
- **Release 1, part 2 (RDRs for sols 0-89): March 20, 2013**
  - **Included: APXS, CheMin EDR+RDR, Hazcam, Navcam, REMS, SAM**
  - **Missing: ChemCam, DAN, RAD, MAHLI, MARDI, Mastcam**

- **Why so many things missing?**
  - **CheMin – team discovered errors in data products**
  - **DAN – no delivery of RDRs from Moscow – modeling is taking longer than expected**
  - **ChemCam – PDS and team discovered errors in data products and labels**
  - **RAD – incomplete peer review**
  - **MAHLI / MARDI / Mastcam – incomplete peer review (more about this later)**

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- **Problems**
  - **ITAR, ITAR, everywhere**
    - **All SISs had to be submitted to JPL Export Office *and* JPL Document Review, even though Deputy Project Scientist thought they had already been approved. Some have still not been cleared, so they are temporarily offline.**
    - **Fields labeled "op code" in various products caused an ITAR emergency, and almost required withdrawal of data sets already made public. At the last minute the Export Office was persuaded that *instrument* op codes were permissible, although they are still "looking into it".**

  - **Label errors in EDR data sets will require reprocessing for next release.**
- **Lessons for PDS, OPGS, and instrument teams**
  - **Pay attention to peer review results.**
  - **Pay attention to end-to-end test results.**
  - **Enforce use of manifests for future releases.**
  - **Teams need more lead time to make RDRs from EDRs.**

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- **Release 2 has been postponed one week, to June 6, 2013, for OPGS to correct errors discovered in Release 1.**

- **Release 2 will include:**
  - **EDRs and RDRs for sols 90-179 for most instruments.**
  - **Reprocessed EDRs and RDRs for sols 0-89 for most instruments.**
  - **RAD EDRs and RDRs for sols 0-179, assuming peer review is completed.**
  - **MAHLI / MARDI / Mastcam EDRs and RDRs (first batch) for sols 0-179, assuming peer review is completed.**

- **OPGS and Teams deliver to PDS by May 16, 2013.**

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MAHLI / MARDI / Mastcam Status

- **The MAHLI, MARDI, and Mastcam (MMM) archive development has been far behind schedule for many months, but they are catching up.**
- **Peer reviews:**
  - **There are currently 90-some product types defined, but only some have examples in existence. They are the focus of Peer Review Part 1.**
  - **Schedule for Part 1:**
    - **March 27: Start of review**
    - **April 10: Comments due**
    - **April 18: MMM responses due**
    - **April 25: Review teleconference**
    - **May 16: Delivery to PDS of reviewed and passed products for sols 0-179.**
  - **The remaining products will be in Peer Review Part 2, date TBD.**

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